

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE Group Art Unit 3746

I, Tijuana M. Jackson, hereby certify that this correspondence is being deposited with the US Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date of my signature.

Signature

4-13-2004

Date of Signature

Lyon Brad King

Application No. 10/693,127

Confirmation No.: 1822

Filed: October 24, 2003

Examiner: Not Yet Assigned

"THRUSTER APPARATUS AND METHOD"

METHOD"

INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 CFR §1.97(b)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and/or PTO/SB/08B and copies of which are attached.

Citation of these references is respectfully requested.

No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Respectfully submitted,

Daniel S. Jones Reg. No. 42,697

File No. 066040-9764-00 Michael Best & Friedrich LLP 100 East Wisconsin Avenue Milwaukee, Wisconsin 53202-4108 (414) 271-6560 X:\clientb\066040\9764\A0800690.1

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute of Formation DiscLosure

The Formation DiscLosure STATEMENT BY APPLICANT

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Complete if Known **Application Number** 10/693,127 Filing Date October 24, 2003 First Named Inventor Lyon Brad King Group Art Unit 3746 **Examiner Name** Not Yet Assigned Attorney Docket Number 066040-9764-00

(use as many sheets as necessary) Sheet 1 of

Substitute form 1449B/PTO

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, Examiner Initials symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published. Jankovsky, R., Tverdokhlebov, S., and Manzella, D., "High Power Hall Thrusters," AIAA Paper No. AIAA-99-2949, Proc. of 35th Joint Propulsion Conference, June 20-23, 1999, Los Angeles, CA. Published prior to October 24, 2002. Tverdokhlebov, O.S., and Semenkin, A.V., "Iodine propellant for electric propulsion — To be -or not to be," AIAA-2001-3350, 37th AIAA/ASME/SAE/ASEE Joint Propulsion Conference Pasadena, CA. Published prior to October 24, 2002. Dressler, R.A., Chiu, Y. —H., and Levandier, D.J., "Propellant alternatives for ion and Hall effect thrusters," AIAA-2000-0602, 38th Aerospace Sciences Meeting, Jan. 10-13, 2000, Reno, NV. Published prior to October 24, 2002. Tverdokhlebov, O.S., Semenkin, A., and Polk, J., "Bismuth propellant option for very high power TAL thruster," AIAA-2002-0348, 40th Aerospace Sciences Meeting, Reno, NV. Published prior to October 24, 2002. Choueiri, E.Y., Chiravalie, V., Miller, G.E., Anderson, W., and Bland, J., "Lorentz force accelerator with an openended lithium heat pipe," AIAA-96-2737. Published prior to October 24, 2002. Emsellem, G., Kodys, A.D., and Choueiri, E.Y., "Thermal analysis of a Lorentz force accelerator with an open lithium heat pipe," IEPC-99-166. Published prior to October 24, 2002. Khartov, S., Serovaisky, V., Smakhtin, A., Tchuyan, R., and Valentian, D., "The investigation of the temperature field in the SPT structure elements," IEPC-95- 174, Proc. of — 1995 International Electric Propulsion Conference. Published prior to October 24, 2002. Butler, G.W., Yuen, J.L., Tverdokhlebov, S.O., Semenkin, A.V., and Jankovsky, R.S., "Multimode, high specific impulse Hall thruster technology," AIAA-2000-3254, 36th AIAA/ASME/SAE/ASEE Joint Propulsion Conference, Huntsville, AL, July 17-19, 2000. Published prior to October 24, 2002. Pote, B. and Tedrake, R., "Performance of a high specific impulse Hall thruster," IEPC-01-035, Proceedings of 27th International Electric Propulsion Conference, Pasadena, CA, Oct. 15-19, 2001. Published prior to October 24, 2002.

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

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Sheet

2

 Complete if Known

 Application Number
 10/693,127

 Filing Date
 October 24, 2003

 First Named Inventor
 Lyon Brad King

 Group Art Unit
 3746

 Examiner Name
 Not Yet Assigned

 Attorney Docket Number
 066040-9764-00

Examiner Initials

| Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.

| Raitses, Y., Doff, L.A., Litvak, A.A., and Fisch, N.J., "Plume reduction in segmented electrode Hall thruster," Journal of Applied Physics, Vol. 88, No. 3, Aug. 2000, pp. 1263-1270. Published prior to October 24, 2002.

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